

## New Excellent Logistics Technology

Date of Release: 8 April 2024

Dept. in Charge: **Advanced Logistics Division, MOLIT**

Contact: Annie KIM / Global Media Communicator, MOLIT / [audiis2@korea.kr](mailto:audiis2@korea.kr) / +82 44 201 3056

*Designated as the 7<sup>th</sup> New Excellent Logistics Technology for the automated loading and unloading system without entering the storage while improving labor conditions for couriers*

The Ministry of Land, Infrastructure and Transport (MOLIT, Minister PARK Sang-woo) designated the ‘Horizontal loading and unloading automatic system for small cargo transport vehicles’ (hereinafter referred to as ‘automated parcel loading and unloading system’), which helps loading and unloading of packages horizontally, as New Excellent Logistics Technology No. 7 on April 5<sup>th</sup>.

This technology is a device system that automatically moves small cargos by moving the floor plate of the vehicle at a touch of the button without having to climb up and down or enter the vehicle with parcels.

### [Example of operating the new excellent logistics technology No. 7]





**<No.7> Horizontal loading and unloading automatic system for  
small cargo transport vehicles (Speed Floor)**

자동 상하차 모빌리티 솔루션



The New Excellent Logistics Technology Initiative refers to a certificate system in which the MOLIT certifies the excellent technologies with novelty, progressiveness, economic feasibility, applicability in the field, and dissemination and usability by evaluating logistics technologies developed for the first time in Korea or introduced from abroad and improved domestically. A total of 6 cases has been designated since it was implemented in 2020 to promote the dissemination and the use of logistics technologies.

Once it is designated as a new excellent logistics technology, it will receive various benefits including, ① priority support such as technology development funds, ② priority application and purchase recommendation to public institutions, and ③ additional points when bidding.

The new excellent logistics technology designated this time is the automated parcel loading and unloading system by the installed conveyor belt on the cargo truck weighing less than 1.5 tons, allowing couriers to conveniently load and unload small packages without entering the storage. The automatic system is expected to make it possible to reduce working hours and labor costs, while preventing safety accidents.



This device technology was developed by Speed Floor inc. (CEO HONG Hyun-jin). Unlike conventional conveyor belts, it can transport high loads of cargo by adopting a unique structure combining chain and belt. Installation is easy and maintenance work such as replacing consumables is rather simple as well.

The system installed in the loaded container of the existing large trailer was a lot bigger in size to handle huge cargo as a diesel hydraulic system. On the contrary, the new technology designated this time has been developed as the first automatic device for loading and unloading small cargo by lightening the system for large cargo and applying an electric motor method.

As there hasn't been no examples of automated horizontal loading and unloading devices being applied to small delivery vehicles not only domestically but also overseas, it could be promoted in the international market as well.

AHN Jin-ae, Director of the Advanced Logistics Division of the MOLIT stated, "We expect to increase work efficiency and reduce the risk of safety accidents such as industrial disasters for delivery workers by semi-automating the loading and unloading tasks with mobile devices mounted on cargo vehicles".

Detailed information about the new excellent logistics technologies can be found on the website of the Korea Agency for Infrastructure Technology Advancement. (<http://www.kaia.re.kr>).